

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD0017_01_s_2013_1				
Comment Code					
Inspector Comment					
LMA has a copy of the manual on file.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD0017_01_s_2013_2				
Comment Code					
Inspector Comment					
LMA has adequate flood fight supplies.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	3
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD0017_01_s_2013_3				
Comment Code					
Inspector Comment					
District staff are involved in training sponsored by DWR.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0017 Mosssdale

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.07	Rating **	M	Issue No.	69
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.915214 °	37.915214 °	
			-121.321587 °	-121.321587 °	
DWR ID	DWR_RD0017_02_f_2017_69				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.12	Rating **	M	Issue No.	71
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		37.914598 °	37.914598 °	
			-121.322097 °	-121.322097 °	
DWR ID	DWR_RD0017_02_s_2017_71				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.25	Rating **	M	Issue No.	2
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.913048 °	37.913048 °	
			-121.323561 °	-121.323561 °	
DWR ID	RD0017U02RM43.51				
Comment Code					
Inspector Comment					
09/13/2017: Erosion occurs along the levee toe. [2017 Site ID:RD0017U02RM43.51].					

Photo 1 of 2 : FA_2018_RD0017_304_2_20180906_00003.jpg



Front view of the erosion.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

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Unit No. 02 San Joaquin River	Right	14.27	09/25/2018 09/25/2018	Richard Willoughby

LM Start	0.25	Rating **	M	Issue No.	2 (cont)	
LM End	0.26	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.913048 °	37.913048 °	
				-121.323561 °	-121.323561 °	
DWR ID	RD0017U02RM43.51					
Comment Code						
Inspector Comment						
09/13/2017: Erosion occurs along the levee toe. [2017 Site ID:RD0017U02RM43.51].						

Photo 2 of 2 : FA_2018_RD0017_304_2_20180906_00006.jpg



Close view of the erosion.

LM Start	0.69	Rating **	A/W	Issue No.	72
LM End	0.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.906868 °	37.906868 °
				-121.324043 °	-121.324043 °
DWR ID	DWR_RD0017_02_s_2017_72				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.91	Rating **	C	Issue No.	3
LM End	0.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.904310 °	37.904310 °
				-121.323386 °	-121.323386 °
DWR ID	RD0017U02RM44.14				
Comment Code					
Inspector Comment					
09/13/2017: The erosion is located upstream of a big tree. [2017 Site ID:RD0017U02RM44.14] District repaired site.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	09/25/2018 09/25/2018	Richard Willoughby

LM Start	1.43	Rating **	M	Issue No.	70
LM End	1.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.897508 °	37.897508 °
				-121.326671 °	-121.326671 °
DWR ID	DWR_RD0017_02_f_2017_70				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0017_304_70_20180906_00011.jpg



Looking east at the landside slope.

LM Start	1.43	Rating **	M	Issue No.	75
LM End	1.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.897467 °	37.897467 °
				-121.326690 °	-121.326690 °
DWR ID	DWR_RD0017_02_f_2017_75				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0017_304_75_20180906_00013.jpg



Looking west at the landside slope.

LM Start	1.93	Rating **	M	Issue No.	83
LM End	1.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.890833 °	37.890833 °
				-121.327955 °	-121.327955 °
DWR ID	DWR_RD0017_02_s_2018_83				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	09/25/2018 09/25/2018	Richard Willoughby

LM Start	4.43	Rating **	A/W	Issue No.	76
LM End	5.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.861070 °	37.850118 °
				-121.319510 °	-121.320188 °
DWR ID	DWR_RD0017_02_s_2012_76				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes have been backfilled, but should be monitored.					

No Photos

LM Start	4.84	Rating **	A/W	Issue No.	82
LM End	4.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.856633 °	37.856633 °
				-121.319411 °	-121.319411 °
DWR ID	DWR_RD0017_02_f_2017_82				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
District grouted rodent holes.					

Photo 1 of 2 : FA_2018_RD0017_304_82_20180927_00201.jpg



Looking south at typical view of grouted rodent holes on landward shoulder. (Fall 2018)

LM Start	4.84	Rating **	A/W	Issue No.	82 (cont)
LM End	4.84	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2018_RD0017_304_82_20180927_00202.jpg



Looking southeast at typical view of grouted rodent holes on landward shoulder and slope. (Fall 2018)

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	09/25/2018 09/25/2018	Richard Willoughby

LM Start	5.49	Rating **	C	Issue No.	74
LM End	5.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.850540 °	37.850540 °
				-121.320413 °	-121.320413 °
DWR ID	DWR_RD0017_02_s_2017_74				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	7.58	Rating **	M	Issue No.	25
LM End	7.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.828095 °	37.827920 °
				-121.309945 °	-121.309847 °
DWR ID	DWR_RD0017_02_s_2012_25				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	8.04	Rating **	M	Issue No.	84
LM End	8.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.824344 °	37.824344 °
				-121.312455 °	-121.312455 °
DWR ID	DWR_RD0017_02_f_2017_84				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

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Reclamation District No. 0017 Mosssdale

No Photos

Looking north at landside slope.

Looking east at bamboo and elderberries at landward toe.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	09/25/2018 09/25/2018	Richard Willoughby

LM Start	10.64	Rating **	M	Issue No.	80
LM End	10.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.805787°	37.805787°
				-121.322022°	-121.322022°
DWR ID	DWR_RD0017_02_s_2015_80				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	13.28	Rating **	M	Issue No.	149	
LM End	13.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.779470 °	37.779470 °	
				-121.299953 °	-121.299953 °	
DWR ID	809					
Comment Code						
Inspector Comment						
FS_ID:40715						
DS_ID:809						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No information was obtained from desk study. This crossing was found during field visit. Need to contact owner to obtain additional details about crossing (installation date and permit) and status.						
FIELD_STRUCT_DESC: *ABANDONED* [Reclamation District No. 17 Drainage Plant] 18-inch drainage pipe of unknown material through the levee, 5.8 feet below the crown. Gate valve and siphon breaker on the waterside (WS) slope. Flap gate on the WS end. One CM cutoff wall. Pump on the landside (LS). (18-inch pipe Installed by USACE in 1961 -- no permit found; existing 18-inch pipe removed under Permit No. 14450, 1988 - R. H. Brown, two 18-inch pipes installed) [Additional Reference(s): DWR Levee Logs, 1981, 2003. USACE San Joaquin O&M Manual Unit No. 2, May 1963, (HLM 13.36)]						
FS Date: 2/4/2010						

Photo 1 of 3 : UCIP_FA_2018_40715_72548.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	09/25/2018 09/25/2018	Richard Willoughby

LM Start	13.28	Rating **	M	Issue No.	149 (cont)	
LM End	13.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.779470 °	37.779470 °	
				-121.299953 °	-121.299953 °	
DWR ID	809					
Comment Code						
Inspector Comment						
FS_ID:40715 DS_ID:809 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No information was obtained from desk study. This crossing was found during field visit. Need to contact owner to obtain additional details about crossing (installation date and permit) and status. FIELD_STRUCT_DESC: *ABANDONED* [Reclamation District No. 17 Drainage Plant] 18-inch drainage pipe of unknown material through the levee, 5.8 feet below the crown. Gate valve and siphon breaker on the waterside (WS) slope. Flap gate on the WS end. One CM cutoff wall. Pump on the landside (LS). (18-inch pipe Installed by USACE in 1961 -- no permit found; existing 18-inch pipe removed under Permit No. 14450, 1988 - R. H. Brown, two 18-inch pipes installed) [Additional Reference(s): DWR Levee Logs, 1981, 2003. USACE San Joaquin O&M Manual Unit No. 2, May 1963, (HLM 13.36)] FS Date: 2/4/2010						

LM Start	13.28	Rating **	M	Issue No.	149 (cont)
LM End	13.28	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_40715_72551.jpg



View of waterward side, photo 1 of 2.

Photo 3 of 3 : UCIP_FA_2018_40715_72549.jpg



View of waterward side, photo 2 of 2.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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